RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	09/467, 3681.
Source:	IFW16
Date Processed by STIC:	02/22/2007
-	

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 02/22/2007
PATENT APPLICATION: US/09/467,368A TIME: 08:47:53

Input Set: N:\Crf3\RULE60\09467368.RAW
Output Set: N:\CRF4\02222007\1467368A.raw

SEQUENCE LISTING

```
3 (1) GENERAL INFORMATION:
             (i) APPLICANT: Hansen, Peter Kamp
      5
      6
                            Wagner, Peter
      7
                            Mullertz, Anette
                            Knap, Inge Helmer
      8
            (ii) TITLE OF INVENTION: Animal Feed Additives
     10
           (iii) NUMBER OF SEQUENCES: 2
     12
            (iv) CORRESPONDENCE ADDRESS:
     14
                  (A) ADDRESSEE: Novo Nordisk of North America, Inc.
     15
                  (B) STREET: 405 Lexington Avenue
     16
                  (C) CITY: New York
     17
                  (D) STATE: NY
     18
                  (E) COUNTRY: USA
     19
                  (F) ZIP: 10174
     20
           (v) COMPUTER READABLE FORM:
     22
                  (A) MEDIUM TYPE: Diskette
     23
                  (B) COMPUTER: IBM Compatible
     24
     25
                  (C) OPERATING SYSTEM: DOS
     26
                  (D) SOFTWARE: FastSEQ for Windows Version 2.0
     28
            (vi) CURRENT APPLICATION DATA:
                  (A) APPLICATION NUMBER: US/09/467,368A
C--> 29
                  (B) FILING DATE: 21-Dec-1999
C--> 30
W--> 36
                  (C) CLASSIFICATION: 435
           (vii) PRIOR APPLICATION DATA:
     33
                  (A) APPLICATION NUMBER: US/08/886,765
     34
                  (B) FILING DATE: 1-JUL-1997
     35
          (viii) ATTORNEY/AGENT INFORMATION:
     38
                  (A) NAME: Lambiris, Elias J
     39
     40
                  (B) REGISTRATION NUMBER: 33,728
                  (C) REFERENCE/DOCKET NUMBER: 4324.204-US
     41
            (ix) TELECOMMUNICATION INFORMATION:
     43
                  (A) TELEPHONE: 212-867-0123
     44
                  (B) TELEFAX: 212-878-9655
     45
     47 (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
     49
                  (A) LENGTH: 983 base pairs
     50
     51
                  (B) TYPE: nucleic acid
     52
                  (C) STRANDEDNESS: single
     53
                  (D) TOPOLOGY: linear
            (ii) MOLECULE TYPE: cDNA
     55
     57
            (vi) ORIGINAL SOURCE:
     58
                  (A) ORGANISM: Thermomyces lanuginosus
```

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PATENT APPLICATION: US/09/467,368A TIME: 08:47:53

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59 (B) STRAIN: DSM 4109																	
	51 (ix) FEATURE: 52 (A) NAME/KEY: CDS																
	62 (A) NAME/KEY: CDS 63 (B) LOCATION:31705																
65 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:																	
	TCCC												r ACC	. ccc	GTI	GCC	54
	1000	reced	inc c	,1011	·GCL	11 CC	.1100	11010	Met	Val	Gla	, Phe	Thi	Pro	Val	Aļa	
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	Leu																202
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73	GCC	10	CAC	CTTC	CAA	AAC		CAG	አ <i>ር</i> አ	ልሮሮ	CCC		ጥሮር	GAG	GGC	TGG	150
	Ala																130
		THE	GIU	Leu	GIU		Arg	GIII	1111	TIIL	35	Poli	261	GIU	Gry	40	
77	25	~~ m	aam	m » m	ma a	30	maa	шаа	maa	7 CT		CCT	CCA	CCC	CAG		198
79	CAC	GAT	GGT	TAT	TAC	TAT	Com	TGG	TGG	AG1	AC.	C117	Clar	712	Cln	Mla	190
	His	Asp	GIY	туг		Tyr	ser	пр	пр		Asp	GIY	GIY	Ата	55	AIG	
81			- da		45	~~~	999	aaa	7 00	50	an a	א תווי	N.C.C	TTCC		CAT	246
	ACG																240
	Thr	Tyr	Thr		Leu		GIŢ	GIY		TAL	GIU	TŤG	Ser		GŤÃ	Asp,	
85				60	~=~	~			65	maa	330	000	aaa	70	7 7 C		294
	GGC																294
	Gly	Gly		Leu	Val	GIY	GIŸ		GIY	Trp	Asn	Pro		Leu		Ala	
89			75					80		~- ~	~~~		85		,,	ma C	242
	AGA																342
	Arg		Ile	His	Phe	GIu		Val	Tyr	GIn	Pro		GIY	Asn	ser	Tyr	
93		90					95			~~~	~~~	100	~~~			3 m/C	200
	CTT																390
	Leu	Ala	Val	Tyr	Gly		Thr	Arg	Asn	Pro		vai	GIU	Tyr	Tyr		
	105					110					115	a a m	~~~	3.00	~~~	120·	420
99	GTC	GAG	AAC	TTT	GGC	ACC	TAT	GAT	CCT	TCC	TCC	GGT	GCT	ACC	GAT	CTA	438
		. Gli	ı Ası	n Phe			г Туз	Asp	Pro			r GI	y Al	a Thi		Leu	
10					12!					130		. am	a aa		13!		406
																CACT	486
	_	7 Th:	r Va.			s As	o GTZ	Ser			r Ar	д ге	u GI			r Thr	
10				14					145				a	150			F2.4
																A TAC	534
10	8 Arg	y Va			a Pro	o Se:	r Ile			Th	r GI:	n Th			D GTI	n Tyr	
10			15					160					16		~ - ~		500
																G GGC	582
11	2 Trp	•		l Ar	g Gl:	n Asj			J Thi	s Se	r GI			I GI	n Th	r Gly	
11		17					175					18					
																r GAC	
			s Pho	e Asj	p Ala			a Arc	g Ala	a Gl			n Va	I As	n Gl	y Asp	
	7 18					19					19				_	200	
																C TAT	678
12	O His	Ty:	r Ty:	r Gl	n Il	e Va	l Ala	a Thi	: Glı			r Ph	e Se	r Se		y Tyr	
12					20					21			•		21	5	
	3 GC:										AGAC	GTAA	CCT	GGTG	GTG		725
12	4 Ala	a Ar	g Il	e Thi	r Va	l Al	a Asp	y Val	l Gly	Y							

RAW SEQUENCE LISTING DATE: 02/22/2007 PATENT APPLICATION: US/09/467,368A TIME: 08:47:53

Input Set: N:\Crf3\RULE60\09467368.RAW
Output Set: N:\CRF4\02222007\1467368A.raw

125				220					225								
127	ATCT	ATCTCGCGAG GCAACAGCCA AGAATGTCGT CAGATGTGCC GGTTGAAGGT ATTCAATCAG									785						
																GAGCC	845
131	TGGCCAGGAT CAGTAGTTGC TTTGCGGTGT TTTGCTCCCT ATTCTCGTGA AAAAATTGTT												905				
133	ATTGCTTCGT TGTCTAGTGT ACATAGCCGA GCAATTGAGG CCTCACGCTT GGGAAAAAAA													965			
135	AAA	AAAA	AA A	AAAA	AAA										•		983
137	(2)	INFO	RMAT	CION	FOR	SEQ	ID 1	10: 2	: :								
139		(i)	SEC	QUENC	CE CF	IARAC	TER	STIC	S:		•	•				•	
140																	
141																	
142	•																
144																	
146	6 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2: 8 Met Val Gly Phe Thr Pro Val Ala Leu Ala Ala Leu Ala Ala Thr Gly																
148	Met	Val	Gly	Phe	Thr	Pro	Val	Ala	Leu		Ala	Leu	Ala	Ala		Gly	
149					5	_	_		_	10		_		_	_ 15		
	Ala	Leu	Ala		Pro	Ala	Gly	Asn		Thr	Glu	Leu	Glu		Arg	Gln	
152				20				_	25	_		_	_	30		~	
	Thr	Thr		Asn	Ser	Glu	GIY		His	Asp	GIY	Tyr		Tyr	ser	Trp	
155		_	35	es 3			~ 1	40	m1	m	ml	3	45	~ 1	01	a 1	•
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158		50	~1	- 1 -	0	m	55	N	a 1	a 1	7 ~~	60	ו בענ	C1	C1.,	Trea	
	Thr	Tyr	GIU	TTE	ser	70	GIY	Asp	GTÄ	GIY	75	пеп	vai	GLY	Gry	80	
161	65 Gly	m~~	7 ~~	Dro	C1		7 02	λla	λνα	λla		uic	Dhe	G111	Glv		
164	-	пр	ASII	PIO	85	пеп	ASII	AIA	Arg	90	TIC	шта	FIIC	GIU	95	Val	
	Tyr	Gln	Pro	Δen		Δen	Ser	ጥ _ህ ዮ	T.e.11		Val	Tvr	Glv	Trp		Ara	
167	-	GIII	110	100	OLY	71011	001	- 1 -	105		•	-,-	017	110		5	
	Asn	Pro	Leu		Glu	Tvr	Tvr	Ile		Glu	Asn	Phe	Glv		Tvr	asA	
170		0	115			-1-	-1-	120					125		•	-	
	Pro	Ser	Ser	Gly	Ala	Thr	Asp	Leu	Gly	Thr	Val	Glu	Cys	Asp	Gly	Ser	
173		130		-			135		•			140	_	_	_		
175	Ile	Tyr	Arg	Leu	Gly	Lys	Thr	Thr	Arg	Val	Asn	Ala	Pro	Ser	Ile	Asp	
	145	-	_			150					155					160	
178	Gly	Thr	${\tt Gln}$	Thr	Phe	Asp	Gln	Tyr	Trp	Ser	Val	Arg	Gln	Asp	Lys	Arg	
179		-			165					170					175		
181	Thr	Ser	Gly	Thr	Val	Gln	Thr	Gly	Cys	His	Phe	Asp	Ala	Trp	Ala	Arg	
182				180					185					190			
184	Ala	Gly	Leu	Asn	Val	Asn	Gly	Asp	His	Tyr	Tyr	Gln		Val	Ala	Thr	
185			195					200			-		205	_ =			
	Glu	-	Tyr	Phe	Ser	Ser	_	Tyr	Ala	Arg	Ile		Val	Ala	Asp	۷al	
188		210					215					220					
	Gly																
191	225																

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VERIFICATION SUMMARY

DATE: 02/22/2007

PATENT APPLICATION: US/09/467,368A TIME: 08:47:54

Input Set : N:\Crf3\RULE60\09467368.RAW
Output Set: N:\CRF4\02222007\I467368A.raw

L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:36 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)